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the 615,922 soldiers held prisoners of war in other lands, and the 4,207,023 wounded. The dead numbered 1,676,696, and the missing most of whom are presumably dead, 373,770, a total of 2,000,000 killed in the war.

UNIVERSITY AND EDUCATIONAL NEWS

THE will of General Horace W. Carpentier has now been filed. The estate is valued at \$3,606,000. The principal beneficiaries are Columbia University and Barnard College, each of which receives \$1,420,000. Other beneficiaries include the Presbyterian Hospital, \$200,000; Sloan Hospital, \$200,000, and the University of California, \$100,000.

By the will of the late Charles W. Lenney, of New York, \$50,000 is left to Boston University.

MR. ARTHUR BALFOUR has been nominated for election as chancellor of Cambridge University, in succession to his brother-in-law, the late Lord Rayleigh.

COLORADO COLLEGE has again opened its forestry school, which was closed for two years because of the war. Mr. J. Gordon Parker has been appointed assistant professor of forestry in charge of the school.

A NEW department of physiological chemistry has recently been established at the University of Kansas. Dr. C. Ferdinand Nelson has been elected professor of biological chemistry and head of department.

AT Yale University Arthur Phillips, M.S., has been appointed assistant professor of metallurgy, in the Sheffield Scientific School; James Albert Honeij, M.D., at present assistant professor, professor of clinical medicine in charge of radiology, and Wilder Tileston, M.D., at present assistant professor of medicine, professor of clinical medicine.

DR. C. W. HEWLETT, professor of physics in the North Carolina College for Women, Greensboro, N. C., has been appointed assistant professor of physics at the University of Iowa.

RECENT appointments in the medical school of Loyola University, Chicago, are as follows:

S. A. Matthews, M.D., professor and head of the department of physiology, pharmacology and therapeutics; A. C. Ivy, A.M., Ph.D., formerly instructor in physiology at the University of Chicago, associate professor in physiology; E. S. Maxwell, formerly instructor in pathology at Vanderbilt University and more recently first lieutenant in the U. S. Medical Corps, associate professor in bacteriology and pathology.

DR. HARRISON R. HUNT has resigned as assistant professor of zoology at West Virginia University to become head of the department of biology at the University of Mississippi, Oxford, Mississippi.

DR. J. W. SHIPLEY, professor of chemistry in the Manitoba Agricultural College, has resigned his position in order to accept an appointment as assistant professor in chemistry in the University of Manitoba.

DISCUSSION AND CORRESPONDENCE

THE RIGIDITY OF THE EARTH

TO THE EDITOR OF SCIENCE: An account of an experiment to determine the rigidity of the earth was published in *The Astrophysical Journal* and in *The Journal of Geology*, March, 1914 and in SCIENCE, June 26, 1914. This gave the ratios of the amplitudes of tides observed in N.-S. and E.-W. pipes to the amplitudes computed for the same pipes on the assumption of a perfectly rigid earth, as .523 and .710 respectively.

The work of reducing a new set of automatically recorded observations made by an interference method, which was interrupted by the war, was recently resumed, and it was found that the N.-S. and E.-W. ratios were very nearly equal to each other.

It was then noted that $\frac{.523}{.710} = .7366$ and that the cosine of the latitude of Yerkes Observatory, where the experiment was performed, is .7363. It seemed highly probable therefore that $\cos\phi$ had been introduced erroneously into the computed formula for the N.-S. tides.

We have just been informed by Professor